

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : William B. Kerfoot Art Unit : Unknown
Continuation of : Examiner : Unknown
Serial No. : 08/921,763
Filed : August 26, 1997
Title : GAS-GAS-WATER TREATMENT SYSTEM FOR GROUNDWATER AND
SOIL REMEDIATION

Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Prior to examination, please amend the application as follows:

In the specification:

Please add before the first line:

--This application is a continuation application of application Serial No. 08/921,763 filed on August 26, 1997 entitled Microporous Diffusion Apparatus (allowed), which was a continuation of application Serial No. 08/756,273 entitled Microporous Diffusion Apparatus US Patent 5,855,775, which was a continuation-in-part of application Serial No. 08/638,017 filed on April 25, 1996 entitled Groundwater and Soil Remediation with Microporous Diffusion Methods and Apparatuses, (abandoned) which was a continuation-in-part of application Serial No. 29/038,499 filed on May 5, 1995 entitled Bubblersparge Unit for Ground Water Treatment (abandoned).--

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10578-003002

In the claims:

Cancel claims 1-12

Add claim 13 as follows:

27. (Amended) A process for removing contaminants from a site, said contaminants including dissolved hydrocarbon products, said process comprising:
injecting gas as bubbles including ozone gas under conditions to break carbon-carbon bonds in the contaminants in the site with injecting further comprising:
alternating water injection with bubble production to provide an even dispersion of bubbles, with the bubbles having a bubble diameter of less than about 200 microns, pulling the contaminants into the bubbles and decomposing the contaminants in a reaction in the bubbles in the presence of water.

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REMARKS

Applicant will add additional claims. Applicant has updated the priority information.

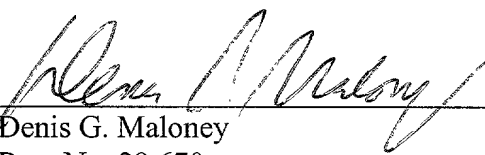
Please examine the above application.

Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: _____

11/6/2001



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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the specification:

Please delete the paragraph at page 1, line 4 and replace with the following:

[This application is a continuation-in-part of U.S. Patent Applications Serial No. 29/038,499, entitled Bubbler Sparge Unit for Groundwater Treatment, filed on May 5, 1995, Serial No 08/638,017 entitled Groundwater and Soil Remediation with Microporous Diffusion Methods and Apparatuses, filed April 25, 1996, and Serial No. 08/756,273 entitled Microporous Diffusion Apparatus, filed November 25, 1996, all of William B. Kerfoot, which are incorporated herein by reference.] This application is a continuation application of application Serial No. 08/921,763 filed on August 26, 1997 entitled Microporous Diffusion Apparatus (allowed), which was a continuation of application Serial No. 08/756,273 entitled Microporous Diffusion Apparatus US Patent 5,855,775, which was a continuation-in-part of application Serial No. 08/638,017 filed on April 25, 1996 entitled Groundwater and Soil Remediation with Microporous Diffusion Methods and Apparatuses, (abandoned) which was a continuation-in-part of application Serial No. 29/038,499 filed on May 5, 1995 entitled Bubblersparge Unit for Ground Water Treatment (abandoned).